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PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	1772004US1AP
First Inventor	Yu, et al.
Title	COLD HEARTH AND SKULL FOR REFINING...
Express Mail Label No.	EV079303204US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

- Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)
- Applicant claims small entity status.
See 37 CFR 1.27.
- Specification [Total Pages] **23**
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
- Drawing(s) (35 U.S.C. 113) [Total **295** **3**]
- Oath or Declaration [Total Pages] **3**
 - a. Newly executed (original or copy)
 - b. Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
 - i. **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
- Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, D.C. 20231

7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. paper
 - c. Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. Assignment Papers (cover sheet & document(s))
10. 37 CFR 3.73(b) Statement Power of Attorney
11. English Translation Document (if applicable)
12. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations
13. Preliminary Amendment
14. Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation Divisional Continuation-in-part (CIP) of prior application No.: _____ / _____

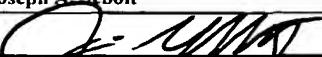
Prior application information: Examiner _____ Group / Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

<input checked="" type="checkbox"/> Customer Number or Bar Code Label	27542	or	<input checked="" type="checkbox"/> Correspondence address below		
(Insert Customer No. or Attach bar code label here)					
Name	Joseph A. Sebolt				
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	4940 Munson St. NW				
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Name (Print/Type) **Joseph A. Sebolt** Registration No. (Attorney/Agent) **35,352**

Signature  Date **7/14/03**

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17858 U.S. PTO
10/619841
07/14/03



18304 U.S. PTO
07/14/03

PTO/SB/17 (1-03)
Approved for use through 04/30/2003. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT **(\$)** **\$750.00**

Complete if Known

Application Number	Unknown
Filing Date	Herewith
First Named Inventor	Yu, et al.
Examiner Name	
Group Art Unit	
Attorney Docket No.	1772004US1AP

METHOD OF PAYMENT (check all that apply)

Check Credit card Money Other None

Deposit Account:

Deposit Account Number **19-0083**

Deposit Account Name

The Commissioner is authorized to: (check all that apply)

Charge fee(s) indicated below Credit any overpayments

Charge any additional fee(s) during the pendency of this application

Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity	Small Entity	Fee Description	Fee Paid
Fee Code (\$)	Fee Code (\$)		
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non - English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 410	2252 205	Extension for reply within second month	
1253 930	2253 465	Extension for reply within third month	
1254 1,450	2254 725	Extension for reply within fourth month	
1255 1,970	2255 985	Extension for reply within fifth month	
1401 320	2401 160	Notice of Appeal	
1402 320	2402 160	Filing a brief in support of an appeal	
1403 280	2403 140	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,300	2453 650	Petition to revive - unintentional	
1501 1,300	2501 650	Utility issue fee (or reissue)	
1502 470	2502 235	Design issue fee	
1503 630	2503 315	Plant issue fee	
Total Claims 15	-20** = 0	X 0 = 0.00	
Independent Claims 2	-3** = 0	X 0 = 0.00	
Multiple Dependent			
Large Entity	Small Entity	Fee Description	
Fee Code (\$)	Fee Code (\$)		
1202 18	2202 9	Claims in excess of 20	
1201 84	2201 42	Independent claims in excess of 3	
1203 280	2203 140	Multiple dependent claim, if not paid	
1204 84	2204 42	** Reissue independent claims over original patent	
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)	(\$)	\$0.00	
*Reduced by Basic Filing Fee Paid			SUBTOTAL (3)
			(\$)

****or number previously paid, if greater; For Reissues, see above**

SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	Joseph A. Sebolt	Registration No. (Attorney/Agent)	35,352	Telephone	330-244-1174
Signature			Date	7/14/03	

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

Applicant(s): Yu, et al.

Docket No.

1772004US1AP

Serial No.
UnknownFiling Date
Herewith

Examiner

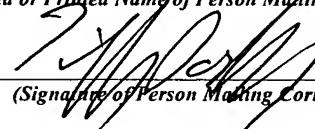
Group Art Unit

Invention: **COLD HEARTH AND SKULL FOR REFINING METALS WHICH SEAL TOGETHER TO PREVENT
OVERFLOW OF MOLTEN METAL THEREBETWEEN**

I hereby certify that the following correspondence:

Patent application, Declaration and Power of Attorney, Fee sheet, and Data sheet*(Identify type of correspondence)*

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7/14/03*(Date)***Tiffany M. Godfrey***(Typed or Printed Name of Person Mailing Correspondence)**(Signature of Person Mailing Correspondence)***EV079303204US***("Express Mail" Mailing Label Number)***Note: Each paper must have its own certificate of mailing.**

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

Applicant(s): Yu, et al.

Docket No.

1772004US1AP

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UnknownFiling Date
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Group Art Unit

Invention: **COLD HEARTH AND SKULL FOR REFINING METALS WHICH SEAL TOGETHER TO PREVENT
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Applicant(s): Yu, et al.

Docket No.

1772004US1AP

Serial No.
UnknownFiling Date
Herewith

Examiner

Group Art Unit

Invention: **COLD HEARTH AND SKULL FOR REFINING METALS WHICH SEAL TOGETHER TO PREVENT
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